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PATENT

Docket No. 290.00320120

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Gil U. LEE et al.	)	Group Art Unit:	Unknown
		)		
Serial No.:	10/519,021	)	Examiner:	Unknown
Confirmation No.:	3299	)		
		)		
Filed:	December 22, 2004	)	International Filing Date:	June 30, 2003
For:	MAGNETIC NANOMATERIALS AND METHODS FOR DETECTION OF BIOLOGICAL MATERIALS			

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 form(s) is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 form(s), marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Also enclosed is a copy of the International Search Report filed in connection with International Patent Application No. PCT/US03/05588, which contains subject matter related to this application.

This application is a continuation-in-part of U.S. Patent Application Serial Nos. 10/373,600, filed 24 February 2003 and 10/373,609, also filed 24 February 2003. In accordance with 37 C.F.R. §1.98(d), copies of documents previously cited by or submitted to the U.S. Patent and Trademark Office in connection with Applicants' prior application(s) listed above, are not included herewith.

**Information Disclosure Statement**

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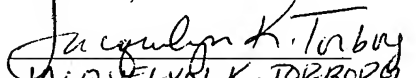
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It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

**CERTIFICATE UNDER 37 C.F.R. 1.10:**

The undersigned hereby certifies that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated below and is addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
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Date

Respectfully submitted

By

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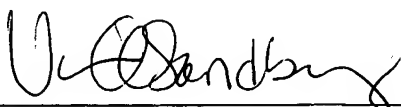
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## U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		3,970,518	7/20/1976	Giaver			
		3,985,649	10/12/1976	Eddelman			
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		4,978,610	12/18/1990	Forrest et al.			
		5,091,206	02/25/1992	Wang et al.			

<b>EXAMINER</b>	<b>Date Considered</b>
<p><b>*Examiner:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

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		5,145,784	9/8/1992	Cox et al.			
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		6,517,777	02/11/2003	Liljestrand et al.			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	X	WO 03/072830	09/04/2003	PCT				
	X	WO 04/003508	01/08/2004	PCT				
	X	WO 03/073444	09/04/2003	PCT				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

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	X	Baselt et al., "A Biosensor Based on Magnetoresistance Technology" <i>Biosensor Bioelectronics</i> , 1998;13:731-739.
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		Carpenter et al. "Effects of Shell Thickness On Blocking Temperatures Of Nanocomposites Of Metal Particles With Gold Shells" <i>IEEE Transactions of Magnetism</i> , 1999;35(5):3496-3498.
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	X	Kim et al., "Solvatochromism of non-linear Optical Chromophores Containing the Dithienothiophene Group in Donor-Acceptor Molecules", <i>Chem. Phys. Lett.</i> , 1996;255:147-150.
	X	Lee et al., "Direct Measurement of the Interaction Forces Between Complementary Strands of DNA", <i>Science</i> , 1994;266:771-773.
	X	Lee et al., "Sensing Discrete Streptavidin-Biotin Interactions with Atomic Force Microscopy", <i>Langmuir</i> , 1994;10:354-357.

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	X	Liu et al., "Guided self-assembly of Au nanocluster arrays electronically coupled to semiconductor device layers" <i>Appl. Phys. Lett.</i> , 2000;77(3):373-375.
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